

2. (original) A telescopic front suspension system according to Claim 1, wherein the cross-sectional shape of the stanchion tubes and slider tubes is elliptical.

3. (original) A telescopic front suspension system according to Claim 2, wherein the elliptical shape has an aspect ratio of minor to major ellipse axes in the range of seventy (70) to eighty (80) percent.

4. (original) A telescopic front suspension system according to Claim 2, wherein the stanchion tubes and slider tubes are dimensioned for use with the frame of a bicycle, and the major ellipse axis of the stanchion tubes is in the range of 1.375 to 2.0 inches, and its minor axis is in the range of 1.0 to 1.5 inches.

5. (original) A telescopic front suspension system according to Claim 2, wherein the stanchion tubes and slider tubes are dimensioned for use on a bicycle, and the stanchion tubes have a length in the range of 8 to 12.5 inches and provide approximately 2 to 6 inches of suspension travel.

6. (original) A telescopic front suspension system according to Claim 1, wherein the steering tube has a lower end mounted to a crown which has sides respectively secured to upper ends of the stanchion tubes.

7. (original) A telescopic front suspension system according to Claim 1, wherein the steering tube is mounted to upper and lower crowns positioned above and below the head tube of the vehicle frame, respectively, and the crowns have sides which are respectively secured to the stanchion tubes.

8. (original) A telescopic front suspension system according to Claim 1, wherein the upper stanchion tubes are dimensioned to slide within the lower slider tubes.

9. (original) A telescopic front suspension system according to Claim 1, wherein the upper stanchion tubes are dimensioned to surround and slide over the lower slider tubes.

10. (original) A telescopic front suspension system according to Claim 8, further comprising bushings mounted respectively on the upper ends of the slider tubes having an inner aperture shape matching the outer shape of the stanchion tubes which slide inside the bushings and the slider tubes.

11. (original) A telescopic front suspension system according to Claim 9, further comprising bushings mounted respectively on the lower ends of the stanchion tubes having an inner aperture shape matching the outer shape of the slider tubes which slide inside the bushings and the stanchion tubes.

12. (original) A telescopic front suspension system according to Claim 1, further comprising a spring and damper assembly mounted within each pair of telescoping stanchion and slider tubes.

13. (original) A telescopic suspension unit for use between a vehicle frame and a weight-bearing part which is to be supported in suspension from the vehicle frame, comprising:

at least one stanchion tube having an elongated shape with one end coupled to the vehicle frame and an opposing end which slides axially and telescopingly with respect to a corresponding slider tube which has one end coupled to the weight-bearing part,

wherein the outer shape of the stanchion tubes and inner shape of the slider tubes have matching surfaces that are a non-round, smooth curve, so as to allow them to freely telescope relative to each other while preventing rotation between the parts, resulting in more precise suspension control for the weight-bearing part relative to the vehicle frame.

14. (original) A telescopic suspension unit according to Claim 13, wherein the cross-sectional shape of the stanchion tube and slider tube is an ellipse.

15. (original) A telescopic suspension unit according to Claim 14, wherein the elliptical shape has an aspect ratio of minor to major ellipse axes in the range of seventy (70) to eighty (80) percent.

16. (original) A telescopic suspension unit according to Claim 14, wherein the stanchion tube is dimensioned to slide within the slider tube.

17. (original) A telescopic suspension unit according to Claim 14, wherein the stanchion tube is dimensioned to surround and slide over the slider tube.

18. (original) A telescopic suspension unit according to Claim 14, formed as a fork suspension unit, comprising a pair of stanchion tubes spaced apart and extending in parallel with each other, and a pair of corresponding slider tubes which have their one ends adapted to be secured to respective sides of the weight-bearing part.

19. (original) A bicycle having a telescopic front fork suspension assembly for steering a front wheel, comprising:

a bicycle frame having a head tube for mounting the front fork suspension assembly to the frame;

a steering tube of the front fork suspension assembly which is mounted in the head tube of the vehicle and coupled to a handlebar for steering the front wheel; and

a pair of upper stanchion tubes spaced apart and extending downwardly in parallel with each other having an elongated shape with upper ends coupled to the fork crown and lower ends which slide axially and telescopingly with respect to a corresponding pair of lower slider tubes which have lower ends mounted on respective sides of an axle for the front wheel,

wherein the outer shape of the stanchion tubes and inner shape of the slider tubes have matching surfaces that are a non-round, smooth curve, so as to allow them to freely